# TRANSLATION PATENT COOPERATION TREATY POT

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P33313-P0			FOR FURTHER A	ACTION	See Form PCT/IPEA/416			
International application No. PCT/JP2004/012904			International filing di 31.08.200	ate (day/month/year) ) <b>4</b>	Priority date (day/month/year) 22.09.2003			
International Patent Classification (IPC) or national classification and IPC H01L27/04, 21/82, 21/66								
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.								
1	under Article 35 and transmitted to the applicant according to Article 36.							
!	This REPORT consists	_		sheets, including	g this cover sheet.			
l l	This report is also accor			_				
			to the International Bi		sheets, as follows:			
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4.	This report contains ind	ications relatir	ng to the following ite	ms:				
	Box No. I	Basis of the	report					
ĺ	Box No. II	Priority	•					
	Box No. III		shment of opinion witl	h regard to novelty, inventive step and industrial applicability				
	Box No. IV			3	1			
	Box No. IV  Lack of unity of invention  Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	Certain docu	iments cited					
	Box No. VII	Certain defe	cts in the international	l application				
	Box No. VIII Certain observations on the international application							
Date of submission of the demand Date of completion of this report			is report					
					-			
Name and mailing address of the IPEA/JP				Authorized officer	•			
Es asimila	Faccimile No.		Talanham Na					

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/012904

Box	No. I	Basis of the report		
1.	•	d to the language, this report is based on the internation nder this item.	al application in the language in w	hich it was filed, unless otherwise
		report is based on translations from the original languagh is the language of a translation furnished for the purpointernational search (Rule 12.3 and 23.1(b))  publication of the international application (Rule 12.4)		·
		international preliminary examination (Rule 55.2 and/o	or 55.3)	
2.	receiving C this report) the in	d to the elements of the international application, this r  Office in response to an invitation under Article 14 are  itemational application as originally filed/furnished  escription:		
	pages			as originally filed/furnished
	pages	* 2,2/1		
	pages			
		laims: 2–4		as originally filed/furnished
	nos.*			with any statement) under Article 19
	nos.*			•
	nos.*		received by this Authority on	
	sheet	rawings:		as originally filed/furnished
	sheet	s*	received by this Authority on _	
	sheet	s*	received by this Authority on _	
	a seq	quence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Lis	sting.
3.	The a	amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		report has been established as if (some of) the amendahave been considered to go beyond the disclosure as file		
		the description, pages		
		the claims, nos.		<del>-</del>
		the drawings, sheets/figs		<u> </u>
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If item 4 ap	oplies, some or all of those sheets may be marked "supe	rseded."	

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)	Claims	1-4	_ YES		
		Claims		NO		
	Inventive step (IS)		1-4	YES		
		Claims		_ NO		
	Industrial applicability (IA)	Claims	1-4	YES		
:		Claims		NO		

- 2. Citations and explanations (Rule 70.7)
  - Document 1: JP 2003-124274 A (Matsushita Electric Industrial Co., Ltd.), 25 April 2003, entire text; all drawings & US 2003/0032263 A1, entire text; all drawings & CN 1405867 A & KR 3014637 A & TW 558772 B
  - Document 2: JP 7-37943 A (Tokyo Electron Ltd.), 7
    February 1995, paragraph [0004]
  - Document 3: JP 2002-22809 A (Seiko Epson Corporation), 23

    January 2002, paragraphs [0023] to [0026];

    fig. 2

The invention set forth in claims 1 to 4 is not disclosed in any of the documents cited in the international search report, and would not be obvious to a person skilled in the art.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 2 is not fully supported by the description. With regard to claim 2, the description does not clearly state the way in which pads are brought into contact with one another via bumps, and it is unclear whether adjoining pads are merely brought into contact with each other by bumps.